

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| L1    | 9    | serial with number\$1 with updat\$ with part\$1 with (new or changing changed change)  | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 15:49 |
| L2    | 16   | serial with number\$1 with changed with part\$1  | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 15:17 |
| L3    | 1    | (US-5579231-\$).did.   | USPAT  | OR               | OFF     | 2005/10/14 15:26 |
| L4    | 1    | 3 and (part\$1 same chang\$3 same serial)  | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 15:27 |
| L5    | 11   | serial with number\$1 with updat\$ with part\$1 with (new or changing changed change)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2005/10/14 15:49 |
| L7    | 1    | (US-6557002-\$).did.   | USPAT  | OR               | OFF     | 2005/10/14 15:59 |
| L8    | 1    | 7 and updat\$3   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 15:59 |
| L9    | 784  | tree same relationship\$1 same part\$1   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L10   | 37   | tree same relationship\$1 same part\$1 same product\$1   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L11   | 53   | tree same manag\$ same part\$1 same product\$1   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L12   | 9    | ("4821197"   "5297241"   "5347612"   "5526271"   "5806069"   "5963724"   "6128002"   "6148302"   "6324587").PN.                | USPAT  | OR               | OFF     | 2005/10/14 16:09 |
| L13   | 1    | (("6557002").PN.) and (tree\$1 relationship number\$1 assign\$ enter\$ stor\$ mark\$ product\$1 part\$1 attribute\$1 histor\$) | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L14   | 1    | (("6557002").PN.) and (database)   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L15   | 4    | tree same relationship\$1 same part\$1 same number\$1 same serial  | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L16   | 1    | serial with number\$1 with product\$1 with part\$1 same relationship same database   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L17   | 2    | serial with number\$1 with product\$1 with part\$1 same relationship   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L18   | 231  | serial with number\$1 with product\$1 with part\$1   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |
| L19   | 15   | (serial with number\$1 with product\$1 with part\$1) and tree and database   | US-PGPUB; USPAT                                    | OR               | OFF     | 2005/10/14 16:09 |

|     |       |  |                        |    |     |                  |
|-----|-------|--|------------------------|----|-----|------------------|
| L20 | 26379 | different with number\$1 with (product\$1 part\$1)   | US-PGPUB; USPAT        | OR | OFF | 2005/10/14 16:09 |
| L21 | 197   | different with number\$1 with (product\$1 part\$1) with "same" with structure\$1                                 | US-PGPUB; USPAT        | OR | OFF | 2005/10/14 16:09 |
| L22 | 11    | (different with number\$1 with (product\$1 part\$1) with "same" with structure\$1) and relationship and database | US-PGPUB; USPAT        | OR | OFF | 2005/10/14 16:09 |
| L23 | 19    | (different with number\$1 with (product\$1 part\$1) with "same" with structure\$1) and database                  | US-PGPUB; USPAT        | OR | OFF | 2005/10/14 16:09 |
| L24 | 1     | ("6557002").PN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/10/14 16:09 |
| L25 | 1     | (("6557002").PN.) and (retriev\$ provid\$)   | US-PGPUB; USPAT        | OR | OFF | 2005/10/14 16:09 |
| L26 | 87    | histo\$ same (product\$1 part\$1) same serial same number\$1 same database                                       | US-PGPUB; USPAT        | OR | OFF | 2005/10/14 16:09 |

 **PORTAL**  
USPTO

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)  
**Search:**  The ACM Digital Library  The Guide  
 +manag\* +product\* +part\* +tree\* +serial

THE ACM DIGITAL LIBRARY

 [Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Published before July 2000

Terms used manag product part tree serial

Found 5,132 of 109,665

Sort results by  relevance  Save results to a Binder  
 expanded form  Search Tips  
 Open results in a new window

Try an [Advanced Search](#)  
 Try this search in [The ACM Guide](#)

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale **1 Interactive Editing Systems: Part II**

Norman Meyrowitz, Andries van Dam

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3Full text available:  [pdf\(9.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 A cost-benefit decision model: analysis, comparison and selection of data management**

Stanley Y. W. Su, Jozo Dujmovic, D. S. Batory, S. B. Navathe, Richard Elnicki

September 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 3Full text available:  [pdf\(3.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a general cost-benefit decision model that is applicable to the evaluation, comparison, and selection of alternative products with a multiplicity of features, such as complex computer systems. The application of this model is explained and illustrated using the selection of data management systems as an example. The model has the following features: (1) it is mathematically based on an extended continuous logic and a theory of complex criteria; (2) the decisi ...

**3 Query processing in a multimedia document system**

Elisa Bertino, Fausto Rabitti, Simon Gibbs

January 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 1Full text available:  [pdf\(2.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

**4 Version models for software configuration management**

Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Full text available:  [pdf\(483.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

**Keywords:** changes, configuration rules, configurations, revisions, variants, versions

## 5 From text to hypertext by indexing

Airi Salminen, Jean Tague-Sutcliffe, Charles McClellan

January 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 1

Full text available:  [pdf\(1.98 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A model is presented for converting a collection of documents to hypertext by means of indexing. The documents are assumed to be semistructured, i.e., their text is a hierarchy of parts, and some of the parts consist of natural language. The model is intended as a framework for specifying hypertextual reading capabilities for specific application areas and for developing new automated tools for the conversion of semistructured text to hypertext. In the model, two well-known paradigms— ...

**Keywords:** constrained grammars, grammars, hypertext, properties, structured text, test types, text entities, transient hypergraphs

## 6 Commercial realtime software needs different configuration management

W. M. Gentleman, A. MacKay, D. A. Stewart

October 1989 **ACM SIGSOFT Software Engineering Notes, Proceedings of the 2nd International Workshop on Software configuration management**, Volume 14 Issue 7

Full text available:  [pdf\(1.24 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Arguments are presented as to why integrated, monolithic configuration management is not well suited to commercial realtime systems. An alternative approach to configuration management that over several years we have found to be effective and widely useable is described. This approach, Database and Selectors Cel (DaSC), separates treatment of versions that exist simultaneously from the evolution of those versions over time. Versions that exist simultaneousl ...

## 7 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Full text available:  [pdf\(5.02 MB\)](#)

Additional Information: [full citation](#)

## 8 GAMS: a framework for the management of scientific software

Ronald F. Boisvert, Sally E. Howe, David K. Kahaner

December 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 4

Full text available:  pdf(2.83 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

#### 9 Curriculum 68: Recommendations for academic programs in computer science: a report of the ACM curriculum committee on computer science

William F. Atchison, Samuel D. Conte, John W. Hamblen, Thomas E. Hull, Thomas A. Keenan, William B. Kehl, Edward J. McCluskey, Silvio O. Navarro, Werner C. Rheinboldt, Earl J.

Schwepp, William Viavant, David M. Young

March 1968 **Communications of the ACM**, Volume 11 Issue 3

Full text available:  pdf(6.63 MB)Additional Information: [full citation](#), [references](#), [citations](#)

**Keywords:** computer science academic programs, computer science bibliographies, computer science courses, computer science curriculum, computer science education, computer science graduate programs, computer science undergraduate programs

#### 10 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available:  pdf(9.37 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

**Keywords:** complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

#### 11 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

**12 The model, language, and implementation of an object-oriented multimedia knowledge base management system**

Hiroshi Ishikawa, Fumio Suzuki, Fumihiro Kozakura, Akifumi Makinouchi, Mika Miyagishima, Yoshio Izumida, Masaaki Aoshima, Yasuo Yamane

March 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 1

Full text available:  [pdf\(3.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

New applications such as CAD, AI, and hypermedia require direct representation and flexible use of complex objects, behavioral knowledge, and multimedia data. To this end, we have devised a knowledge base management system called Jasmine. An object-oriented approach in a programming language also seems promising for use in Jasmine. Jasmine extends the current object-oriented approach and provides the following features. Our object model is based on functional data models and well-establis ...

**13 Database Management Systems Development in the USSR**

A. G. Dale

September 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 3

Full text available:  [pdf\(1.34 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**14 Conference abstracts**

January 1977 **Proceedings of the 5th annual ACM computer science conference**

Full text available:  [pdf\(3.14 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

**15 Technical reports**

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available:  [pdf\(5.28 MB\)](#)

Additional Information: [full citation](#)

**16 Space-Efficient Storage Management in an Attribute Grammar Evaluator**

Mehdi Jazayeri, Diane Pozefsky

October 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 3 Issue 4

Full text available:  [pdf\(935.89 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**17 Shared responsibility: an approach to productive LAN management**

Kay Sommers, Jane Hesler

October 1998 **Proceedings of the 26th annual ACM SIGUCCS conference on User services**

Full text available:  [pdf\(405.08 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**18** On the correctness of orphan management algorithms

Maurice Herlihy, Nancy Lynch, Michael Merritt, William Weihl  
 October 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 4

Full text available:  [pdf\(3.83 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a distributed system, node failures, network delays, and other unpredictable occurrences can result in orphan computations—subcomputations that continue to run but whose results are no longer needed. Several algorithms have been proposed to prevent such computations from seeing inconsistent states of the shared data. In this paper, two such orphan management algorithms are analyzed. The first is an algorithm implemented in the Argus distributed-computing system. at M ...

**Keywords:** Argus, atomic actions, avalon, camelot, input-output automata, recovery, serializability

**19** Software safety: why, what, and how

Nancy G. Leveson  
 June 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 2

Full text available:  [pdf\(4.18 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software safety issues become important when computers are used to control real-time, safety-critical processes. This survey attempts to explain why there is a problem, what the problem is, and what is known about how to solve it. Since this is a relatively new software research area, emphasis is placed on delineating the outstanding issues and research topics.

**20** Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix  
 March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available:  [pdf\(7.97 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

*Human-computer interface management*, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

**PORTAL**  
USPTO

Subscribe (Full Service) Register (Limited Service, Free) Login

Search:  The ACM Digital Library  The Guide

+manag\* +product\* +part\* +tree\* +serial

THE ACM DIGITAL LIBRARY

 [Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Published before July 2000

Found 5,132 of 109,665

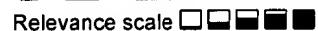
Terms used manag product part tree serial

Sort results by   [Save results to a Binder](#)  
 Display results   [Search Tips](#)  
 [Open results in a new window](#)

Try an [Advanced Search](#)  
 Try this search in [The ACM Guide](#)

Results 21 - 40 of 200 Result page: [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale **21** Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92Full text available:  [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

**22** Query processing: A new way to compute the product and join of relations

Won Kim

May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data**Full text available:  [pdf\(862.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents a new method of computing the product or join of n relations in a paged-memory environment. The method, termed the nested-block method, is an attempt to take maximum advantage of available main-memory buffer space. The problem of finding an optimal allocation of main-memory buffer space for the nested-block method of scanning n relations poses a nonlinear integer-programming problem. This paper first describes the operation of the nested-block method, and derives correspondin ...

**23** The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2Full text available:   [pdf\(6.15 MB\)](#) [Publisher Site](#) Additional Information: [full citation](#)**24** Curriculum recommendations for graduate professional programs in information systemsMay 1972 **Communications of the ACM**, Volume 15 Issue 5Full text available:  [pdf\(4.00 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

**Keywords:** education, information analysis, information systems development, management information systems, management systems, system design, systems analysis

**25 Three-dimensional medical imaging: algorithms and computer systems**

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available:  [pdf\(7.38 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**Keywords:** Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

**26 Rule-based optimization and query processing in an extensible geometric database system**

Ludger Becker, Ralf Hartmut Güting

June 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 2

Full text available:  [pdf\(3.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Gral is an extensible database system, based on the formal concept of a many-sorted relational algebra. Many-sorted algebra is used to define any application's query language, its query execution language, and its optimization rules. In this paper we describe Gral's optimization component. It provides (1) a sophisticated rule language—rules are transformations of abstract algebra expressions, (2) a general optimization framework under which more specific optimization algorithms can be ...

**Keywords:** extensibility, geometric query processing, many-sorted algebra, optimization, relational algebra, rule-based optimization

**27 Special issue on knowledge representation**

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available:  [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

**28 Join processing in relational databases**

Priti Mishra, Margaret H. Eich

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Full text available:  [pdf\(4.42 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The join operation is one of the fundamental relational database query operations. It facilitates the retrieval of information from two different relations based on a Cartesian product of the two relations. The join is one of the most difficult operations to implement

efficiently, as no predefined links between relations are required to exist (as they are with network and hierarchical systems). The join is the only relational algebra operation that allows the combining of related tuples fro ...

**Keywords:** database machines, distributed processing, join, parallel processing, relational algebra

## 29 Developing a natural language interface to complex data

Gary G. Hendrix, Earl D. Sacerdoti, Daniel Sagalowicz, Jonathan Slocum

June 1978 **ACM Transactions on Database Systems (TODS)**, Volume 3 Issue 2

Full text available:  pdf(3.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Aspects of an intelligent interface that provides natural language access to a large body of data distributed over a computer network are described. The overall system architecture is presented, showing how a user is buffered from the actual database management systems (DBMSs) by three layers of insulating components. These layers operate in series to convert natural language queries into calls to DBMSs at remote sites. Attention is then focused on the first of the insulating components, th ...

**Keywords:** database access, human engineering, intelligent interface, natural language, run-time personalization, semantic grammar

## 30 On the complexity of generating optimal plans with cross products (extended abstract)

Wolfgang Scheufele, Guido Moerkotte

May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available:  pdf(2.01 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 31 Concepts in configuration management systems

Susan Dart

May 1991 **Proceedings of the 3rd international workshop on Software configuration management**

Full text available:  pdf(1.92 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 32 Software reuse

Charles W. Krueger

June 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 2

Full text available:  pdf(4.96 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software reuse is the process of creating software systems from existing software rather than building software systems from scratch. This simple yet powerful vision was introduced in 1968. Software reuse has, however, failed to become a standard software engineering practice. In an attempt to understand why, researchers have renewed their interest in software reuse and in the obstacles to implementing it. This paper surveys the different approaches to software reuse found in the ...

**Keywords:** abstraction, cognitive distance, software reuse

**33 Optimization techniques for queries with expensive methods**

Joseph M. Hellerstein

June 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 2Full text available:  [pdf\(582.16 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Object-relational database management systems allow knowledgeable users to define new data types as well as new methods (operators) for the types. This flexibility produces an attendant complexity, which must be handled in new ways for an object-relational database management system to be efficient. In this article we study techniques for optimizing queries that contain time-consuming methods. The focus of traditional query optimizers has been on the choice of join methods and orders; selec ...

**Keywords:** expensive methods, extensibility, object-relational databases, predicate migration, predicate placement, query optimization

**34 Modeling the storage architectures of commercial database systems**

D. S. Batory

December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4Full text available:  [pdf\(4.46 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

**35 Compiling nested data-parallel programs for shared-memory multiprocessors**

Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 15 Issue 3

Full text available:  [pdf\(4.17 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**Keywords:** compilers, data parallelism, shared-memory multiprocessors

**36 Special section: Reasoning about structure, behavior and function**

B. Chandrasekaran, Rob Milne

July 1985 **ACM SIGART Bulletin**, Issue 93Full text available:  [pdf\(5.13 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

**37 Supporting valid-time indeterminacy**

Curtis E. Dyreson, Richard Thomas Snodgrass

March 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 1

Full text available:

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

[pdf\(516.09 KB\)](#)[terms](#)

In valid-time indeterminacy it is known that an event stored in a database did in fact occur, but it is not known exactly when. In this paper we extend the SQL data model and query language to support valid-time indeterminacy. We represent the occurrence time of an event with a set of possible instants, delimiting when the event might have occurred, and a probability distribution over that set. We also describe query language constructs to retrieve informat ...

**Keywords:** SQL, TSQL2, incomplete information, indeterminacy, probabilistic information, temporal database, valid-time database

### 38 [A survey of extensions to APL](#)

Karl Fritz Ruehr

July 1982 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 13 Issue 1

Full text available: [pdf\(3.57 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)  
[terms](#)

A survey of proposed extensions to the APL language is made with emphasis placed on the motivations for various proposals, the differences between them and the consequences of their adoption. Some issues of a more general nature concerning the purpose, process and direction of language extension are also discussed. An extensive bibliography is provided with annotations concerning the nature, development and influence of various authors' works. Areas of extension encompassed by the survey in ...

### 39 [Reducing multidatabase query response time by tree balancing](#)

Weimin Du, Ming-Chien Shan, Umeshwar Dayal

May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available: [pdf\(1.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)  
[terms](#)

Execution of multidatabase queries differs from that of traditional queries in that sort merge and hash joins are more often favored, as nested loop join requires repeated accesses to external data sources. As a consequence, left deep join trees obtained by traditional (e.g., System-R style) optimizers for multidatabase queries are often suboptimal, with respect to response time, due to the long delay for a sort merge (or hash) join node to produce its last result after the subordinate join node ...

### 40 [Abstract interaction tools: a language for user interface management systems](#)

Jan Van Den Bos

April 1988 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 10 Issue 2

Full text available: [pdf\(2.45 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)  
[terms](#), [review](#)

A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ...

Results 21 - 40 of 200

Result page: [previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.

IEEE Xplore<sup>®</sup>  
RELEASE 2.1

Search Results

Results for "(( ( manag\*<in>metadata ) <and> ( part\*<in>metadata ) )<and> ( product\*<in>meta...")  
Your search matched 1345 of 1243738 documents.  
A maximum of 100 results are displayed, 25 to a page, sorted by Relevance in Descending order.

Home | Login | Logout | Access Information | Alerts

Welcome United States Patent and Trademark Office

BROWSE      SEARCH      IEEE XPLORER GUIDE

[e-mail](#)

» Search Options

[View Session History](#)

[New Search](#)

Modify Search

[»](#)

Check to search only within this results set

Display Format:  Citation  Citation & Abstract

» Key

|          |                            |  |                                    |
|----------|----------------------------|--|------------------------------------|
| IEEE JNL | IEEE Journal or Magazine   | Select Article Information   | View: 1-25   <a href="#">26-50</a> |
| IEE JNL  | IEE Journal or Magazine    | <input type="checkbox"/> 1. <b>Display requirements for future man—Machine systems</b><br>Miller, S.W.;<br>Electron Devices, IEEE Transactions on<br>Volume 18, Issue 9, Sep 1971 Page(s):616 - 621<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(736 KB)</a> IEEE JNL                            |                                    |
| IEEE CNF | IEEE Conference Proceeding | <input type="checkbox"/> 2. <b>Data management software for minicomputer production monitoring and</b><br>Schoeffler, J.D.; Bronner, L.R.;<br>Proceedings of the IEEE<br>Volume 61, Issue 11, Nov. 1973 Page(s):1563 - 1570<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(687 KB)</a> IEEE JNL    |                                    |
| IEE CNF  | IEE Conference Proceeding  | <input type="checkbox"/> 3. <b>Electric power load management: Some technical, economic, regulatory issues</b><br>Morgan, M.G.; Talukdar, S.N.;<br>Proceedings of the IEEE<br>Volume 67, Issue 2, Feb. 1979 Page(s):241 - 312<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(8298 KB)</a> IEEE JNL |                                    |
| IEEE STD | IEEE Standard              | <input type="checkbox"/> 4. <b>Computer-aided engineering (CAE) for system analysis</b><br>Walker, R.A.; Shah, S.C.; Gupta, N.K.;<br>Proceedings of the IEEE<br>Volume 72, Issue 12, Dec. 1984 Page(s):1732 - 1745<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(1308 KB)</a> IEEE JNL            |                                    |
|          |                            | <input type="checkbox"/> 5. <b>Trends in computing-system architecture</b><br>Gagliardi, U.O.;<br>Proceedings of the IEEE<br>Volume 63, Issue 6, June 1975 Page(s):858 - 862<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(585 KB)</a> IEEE JNL   |                                    |
|          |                            | <input type="checkbox"/> 6. <b>Status of process control computers in the chemical industry</b><br>Hix, A.H.;<br>Proceedings of the IEEE<br>Volume 58, Issue 1, Jan. 1970 Page(s):4 - 10<br><a href="#">AbstractPlus</a>   Full Text: <a href="#">PDF(770 KB)</a> IEEE JNL                                       |                                    |

- 7. **Technological development in the health services**  
Flagle, C.D.;  
Proceedings of the IEEE  
Volume 57, Issue 11, Nov. 1969 Page(s):1847 - 1852  
[AbstractPlus](#) | Full Text: [PDF\(760 KB\)](#) IEEE JNL
  
- 8. **Screening Program Effectiveness**  
Mirth, L.;  
Manufacturing Technology, IEEE Transactions on  
Volume 5, Issue 1, Mar 1976 Page(s):9 - 13  
[AbstractPlus](#) | Full Text: [PDF\(808 KB\)](#) IEEE JNL
  
- 9. **Hybrid Integrated Circuit Manufacturing Process as Controlled by Shop Line Systems**  
Krause, D.; Locy, D.;  
Components, Hybrids, and Manufacturing Technology, IEEE Transactions on [ Trans. on Components, Packaging, and Manufacturing Technology, Part A, B, Volume 3, Issue 3, Sep 1980 Page(s):345 - 353  
[AbstractPlus](#) | Full Text: [PDF\(2248 KB\)](#) IEEE JNL
  
- 10. **Studies in LSI technology economics. III. Design schedules for applicative integrated circuits**  
Paraskevopoulos, D.E.; Fey, C.F.;  
Solid-State Circuits, IEEE Journal of  
Volume 22, Issue 2, Apr 1987 Page(s):223 - 229  
[AbstractPlus](#) | Full Text: [PDF\(784 KB\)](#) IEEE JNL
  
- 11. **An 8 MBYTE magnetic bubble memory**  
Iida, K.; Saito, M.; Furukawa, K.;  
Magnetics, IEEE Transactions on  
Volume 15, Issue 6, Nov 1979 Page(s):1892 - 1894  
[AbstractPlus](#) | Full Text: [PDF\(352 KB\)](#) IEEE JNL
  
- 12. **An integrated economic analysis of commercial thermal energy storage**  
Comnes, G.A.; Kahn, E.; Pignone, C.; Warren, M.;  
Power Systems, IEEE Transactions on  
Volume 3, Issue 4, Nov. 1988 Page(s):1717 - 1722  
Digital Object Identifier 10.1109/59.192986  
[AbstractPlus](#) | Full Text: [PDF\(660 KB\)](#) IEEE JNL
  
- 13. **Computer-based electric energy cost management**  
Grant, D.C.; Gallant, R.W.;  
Industry Applications, IEEE Transactions on  
Volume 24, Issue 1, Part 1, Jan.-Feb. 1988 Page(s):70 - 74  
Digital Object Identifier 10.1109/28.87253  
[AbstractPlus](#) | Full Text: [PDF\(476 KB\)](#) IEEE JNL
  
- 14. **Alpha: an extension of relational algebra to express a class of recursive queries**  
Agrawal, R.;  
Software Engineering, IEEE Transactions on  
Volume 14, Issue 7, July 1988 Page(s):879 - 885  
Digital Object Identifier 10.1109/32.42731  
[AbstractPlus](#) | Full Text: [PDF\(600 KB\)](#) IEEE JNL
  
- 15. **Software maintenance during system testing: enhanced methods for the project**  
Parish, R.J.;

Selected Areas in Communications, IEEE Journal on  
Volume 6, Issue 8, Oct. 1988 Page(s):1385 - 1392  
Digital Object Identifier 10.1109/49.7872

[AbstractPlus](#) | Full Text: [PDF\(848 KB\)](#) IEEE JNL

- 16. **Valuing the flexibility of flexible manufacturing systems**  
Kulatilaka, N.;  
Engineering Management, IEEE Transactions on  
Volume 35, Issue 4, Nov. 1988 Page(s):250 - 257  
Digital Object Identifier 10.1109/17.7447  
[AbstractPlus](#) | Full Text: [PDF\(588 KB\)](#) IEEE JNL
- 17. **The impact of external factors on productivity in an engineering support**  
Crouch, C.J.; Crouch, D.B.;  
Engineering Management, IEEE Transactions on  
Volume 35, Issue 3, Aug. 1988 Page(s):147 - 157  
Digital Object Identifier 10.1109/17.7434  
[AbstractPlus](#) | Full Text: [PDF\(1008 KB\)](#) IEEE JNL
- 18. **Function point analysis: difficulties and improvements**  
Symons, C.R.;  
Software Engineering, IEEE Transactions on  
Volume 14, Issue 1, Jan. 1988 Page(s):2 - 11  
Digital Object Identifier 10.1109/32.4618  
[AbstractPlus](#) | Full Text: [PDF\(860 KB\)](#) IEEE JNL
- 19. **Assuring quality and reliability of complex electronic systems: hardware**  
Irland, E.A.;  
Proceedings of the IEEE  
Volume 76, Issue 1, Jan. 1988 Page(s):5 - 18  
Digital Object Identifier 10.1109/5.3285  
[AbstractPlus](#) | Full Text: [PDF\(1428 KB\)](#) IEEE JNL
- 20. **The CAPE system: Computer-Aided Protection Engineering**  
Cauthen, R.H.; McCannon, W.P.;  
Computer Applications in Power, IEEE  
Volume 1, Issue 2, April 1988 Page(s):30 - 34  
Digital Object Identifier 10.1109/67.910  
[AbstractPlus](#) | Full Text: [PDF\(876 KB\)](#) IEEE JNL
- 21. **Availability of CNC machines: multiple-input transfer-function modeling**  
Gupta, Y.P.; Somers, T.M.;  
Reliability, IEEE Transactions on  
Volume 38, Issue 3, Aug. 1989 Page(s):285 - 295  
Digital Object Identifier 10.1109/24.44169  
[AbstractPlus](#) | Full Text: [PDF\(856 KB\)](#) IEEE JNL
- 22. **The benefits of using ATE systems in the testing of printed circuit boards**  
Dorf, R.C.; Hall, T.;  
Aerospace and Electronic Systems Magazine, IEEE  
Volume 4, Issue 10, Oct. 1989 Page(s):12 - 16  
Digital Object Identifier 10.1109/62.41738  
[AbstractPlus](#) | Full Text: [PDF\(324 KB\)](#) IEEE JNL
- 23. **Cooperative research at MCC: a focus on semiconductor-related efforts**  
Dove, G.A.;  
Proceedings of the IEEE  
Volume 77, Issue 9, Sept. 1989 Page(s):1364 - 1375

Digital Object Identifier 10.1109/5.35241

[AbstractPlus](#) | Full Text: [PDF\(1368 KB\)](#) IEEE JNL

**24. Selling science to society**

Weiss, L.A.;

Professional Communication, IEEE Transactions on  
Volume 32, Issue 2, June 1989 Page(s):106 - 110  
Digital Object Identifier 10.1109/47.31610

[AbstractPlus](#) | Full Text: [PDF\(476 KB\)](#) IEEE JNL

**25. Formal program construction by transformations-computer-aided, intuitive  
programming**

Bauer, F.L.; Moller, B.; Partsch, H.; Pepper, P.;  
Software Engineering, IEEE Transactions on  
Volume 15, Issue 2, Feb. 1989 Page(s):165 - 180  
Digital Object Identifier 10.1109/32.21743

[AbstractPlus](#) | Full Text: [PDF\(1340 KB\)](#) IEEE JNL

[View: 1-25](#) | [26-5](#)

[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2005 IEEE -

Indexed by  
 Inspec®